$\Rightarrow \varphi_i - \varphi_u = -\frac{\pi}{3}$

Le circuit est inductif.

c- $U_m = 10V$

$U_{R_{max}} = 4V$

d- $I_{max} = \frac{U_{R_{max}}}{R}$

AN $I_{max} = \frac{4}{80} = 5.10^{-2} A$

$Z_1 = \frac{U_m}{I_m}$ AN $Z_1 = \frac{10}{5.10^{-2}} = 200\Omega$

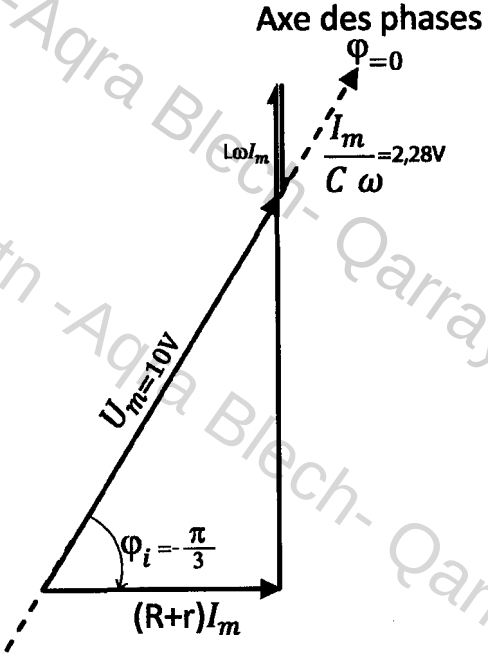
e/ $u(t) = U_{max} \sin(2\pi Nt)$

$= 10\sin(2189,25t)$

$i(t) = I_m \sin(2\pi Nt + \varphi_i)$

$= 5.10^{-2} \sin(2189,25t - \frac{\pi}{3})$

f- f_1*



Qarray.tn -Aqra Blech- Qarray.tn